

Claims

1. A hair detergent composition comprising the following components (a), (b) and (c):

(a) an anionic surfactant,

5 (b) a monoalkyl glyceryl ether having a C₄₋₁₂ alkyl group, a monoalkenyl glyceryl ether having a C₄₋₁₂ alkenyl group, or mixtures thereof and

(c) a silicone derivative having a group containing both a hydroxy group and a nitrogen atom as a side chain
10 thereof bonded to a silicon atom.

2. The hair detergent composition of Claim 1, wherein the anionic surfactant as Component (a) is selected from the group consisting of sulfate-, sulfonate-, carboxylate-type, and mixtures thereof.

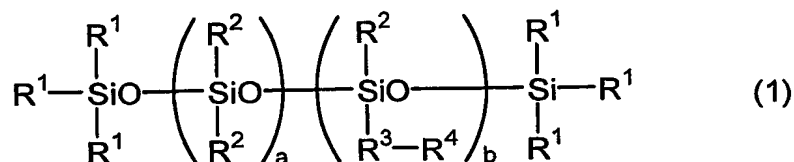
15 3. The hair detergent composition of Claim 1, wherein the anionic surfactant as Component (a) is selected from the group consisting of $\text{RO}(\text{CH}_2\text{CH}_2\text{O})_n\text{SO}_3\text{M}$, $\text{R}'\text{OSO}_3\text{M}$, and mixtures thereof wherein, R represents a C₁₀₋₁₈ alkyl or alkenyl group, R' represents a C₁₀₋₁₈ alkyl group, M
20 represents an alkali metal, alkaline earth metal, ammonium, alkanolamine or basic amino acid, and n stands for a number of from 1 to 5 on weight average.

4. The hair detergent composition of Claim 1,

wherein component (b) is a mono alkyl glyceryl ether having a linear C₄₋₁₀ alkyl group, a mono alkyl glyceryl ether having a branched C₄₋₁₀ alkyl group, or mixtures thereof.

5. The hair detergent composition of Claim 4,
 5 wherein alkyl group is selected from the group consisting of n-butyl, isobutyl, n-pentyl, 2-methylbutyl, isopentyl, n-hexyl, isohexyl, n-heptyl, n-octyl, 2-ethylhexyl, n-decyl and isodecyl groups.

6. The hair detergent composition of Claim 1,
 10 wherein the silicone derivative as component (c) is represented by the average formula (1) below

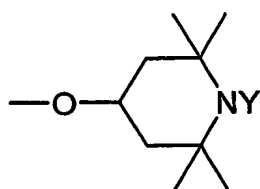


wherein, R¹ each independently represents a monovalent hydrocarbon group, a hydroxy group or an alkoxy group,

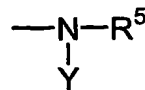
15 R² each independently represents a monovalent hydrocarbon group,

R³ each independently represents a divalent C₁₋₁₀ hydrocarbon group,

R⁴ each independently represents a group represented
 20 by the following formula (2) or (3):



(2)



(3)

wherein, Y each independently represents a hydrogen atom or a group: $-\text{CH}_2\text{CH}(\text{OH})-\text{R}^3-\text{OH}$ (R^3 has the same meaning as described above), R^5 each independently represents a hydrogen atom or a group $-\text{R}^3\text{NY}_2$ (Y and R^3 have the same meanings as described above), wherein all the Ys do not represent a hydrogen atom simultaneously,

a stands for a number of from 25 to 1,000, and

b stands for a number of from 1 to 200.

7. The hair detergent composition comprising the following components (a), (b), and (c):

(a) from 0.5% to 60 wt.% of an anionic surfactant,

(b) from 0.1% to 30 wt.% of a monoalkyl glyceryl ether or monoalkenyl glycerol ether having a C_{4-12} alkyl or alkenyl group, including mixtures thereof, and

(c) from 0.05% to 4 wt.% of a silicone derivative having a group containing both a hydroxy group and a nitrogen atom as a side chain thereof bonded to a silicon atom.

8. The hair detergent composition of Claim 7,

wherein the silicone derivative as Component (c) is represented by the average formula (1) below

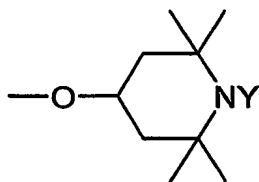


wherein, R¹ each independently represents a monovalent hydrocarbon group, a hydroxy group or an alkoxy group,

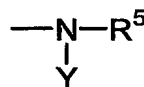
R² each independently represents a monovalent hydrocarbon group,

R³ each independently represents a divalent C₁₋₁₀ hydrocarbon group,

R⁴ each independently represents a group represented by the following formula (2) or (3):



(2)



(3)

wherein, Y each independently represents a hydrogen atom or a group: -CH₂CH(OH)-R³-OH (R³ has the same meaning as described above), R⁵ each independently represents a hydrogen atom or a group -R³NY₂ (Y and R³ have the same meanings as described above), wherein all the Ys do not represent a hydrogen atom simultaneously,

a stands for a number of from 25 to 1,000, and

b stands for a number of from 1 to 200.